

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (original): A kit for implanting an agent into a tissue wall, comprising
  - (a) an elongate flexible body having a proximal end and a distal end, a delivery chamber coupled to the distal end of the body and having a space for carrying the agent, and a port for releasing the therapeutic agent therefrom, an actuator coupled to the delivery chamber and capable of driving the agent through the port, and,
  - (b) a pellet adapted to be received within said delivery chamber and being formed from a material capable of promoting localized angiogenesis, and having a reservoir for carrying cells for implantation in said myocardial tissue.
10. (original) An apparatus for delivering at least one therapeutic agent to the myocardium comprising:
  - a pellet formed from a biocompatible material with a plurality of surfaces contacting the tissues of the myocardium to promote localized angiogenesis, and
  - a reservoir disposed within said pellet adapted for delivering cells capable of implantation in said myocardial tissue.
20. (original): An apparatus according to claim 1 wherein the inner reservoir contains a molecular ligand, said ligand possessing specific affinity for at least one cell surface marker expressed on a circulating myocyte precursor cell, and said ligand capable of affixing said myocyte precursor cell within said reservoir
21. (original): A method for improving contractile function of myocardial tissue that has suffered ischemic damage, comprising the steps of
  - identifying a damaged portion of myocardial tissue,

providing a catheter having a distal end adapted for delivering therapeutic agents into myocardial tissue,  
introducing said catheter into an anatomic structure,  
guiding said catheter through the anatomic structure to reach a surface of the heart,  
disposing said distal end against the surface of the heart, and  
sequentially delivering at least two therapeutic agents through the surface of the heart to the damaged myocardial tissue,  
wherein the first therapeutic agent contains at least one angiogenic factor, and wherein the second therapeutic agent contains implantable cells adapted for restoration of contractile function.

22. (original): A method for improving contractile function of myocardial tissue that has suffered ischemic damage, comprising the steps of  
identifying a damaged portion of myocardial tissue,  
accessing said damaged portion of myocardial tissue, and  
delivering at least two therapeutic agents to the damaged portion of myocardial tissue,  
wherein the first therapeutic agent contains at least one agent capable of promoting angiogenesis,  
wherein the second therapeutic agent contains cells adapted for implantation in said myocardial tissue, and  
whereby the first therapeutic agent evokes a local angiogenic response in the damaged myocardial tissue and the second therapeutic agent introduces cells adapted for implantation in said myocardial tissue, said cells capable of regenerating contractile muscle tissue to achieve improved contractile function.

23. (original): A method according to claim 22, wherein identifying a damaged portion of tissue includes identifying an infarcted portion of myocardial tissue.

24. (original): A method according to claim 22, wherein delivering a therapeutic agent includes delivering a therapeutic agent being capable of mitigating tissue-level preconditions for reperfusion injury.

25. (original): A method according to claim 22, including the steps of releasing at least one angiogenic factor from the first therapeutic agent, and releasing the cells adapted for implantation from the second therapeutic agent after the release of the angiogenic factor.

26. (original): A method according to claim 22, wherein at least one therapeutic agent includes a time release delivery vehicle.

27. (original): A method according to claim 22, wherein said cells adapted for implantation in the myocardial tissue included skeletal myoblast-derived cells.

28. (original): A method according to claim 22, wherein said cells adapted for implantation in the myocardial tissue include cardiomyocytes.

29. (original): A method according to claim 22, wherein said cells adapted for implantation in the myocardial tissue include precursors to cardiomyocytes.

30. (original): A method according to claim 22, wherein said cells adapted for implantation in the myocardial tissue include genetically modified fibroblasts.

31. (original): A method according to claim 22, wherein said cells adapted for implantation in the myocardial tissue include bone marrow stromal cells.